



Course	ITSS & OPRE 3312.001 – Object-Oriented Programming (Java)
Term	Fall 2022
Meets	Tu-Th 11:30 am-12:45 pm
Room	JSOM 1.110
Modality	Traditional Classroom / In-Person

Instructor:	Kevin Short
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Office Hours:	Tu-Th, 2-3 pm, JSOM 3.604, or by appointment and/or Teams
Office Location:	JSOM 3.604 (adjunct shared office, most often not there)
TA:	Meet Vinod Padhiar
TA email:	MeetVinodPadhiar@utdallas.edu

Prerequisites – ITSS 3311 and (MATH 1326 or MATH 2414 or MATH 2419 or OPRE 3340) and (CS 2305 or MATH 2333 or MATH 2418 or OPRE 3333). This course is the same as OPRE 3312.

Course Description

ITSS 3312 – Object-Oriented Programming – Java (3 semester credit hours). Business application development using an object-oriented programming language. Topics include the fundamentals of programming for web-based systems, and object-oriented programming concepts.

Course Learning Objectives

1. Apply the basic mechanics of object-oriented programming (OOP) to write a program and complete a program to produce executable software.
 2. Apply advanced OOP concepts including usage principles of inheritance, polymorphism, encapsulation, method overloading, exception handling, GUI and data structures.
 3. Discover errors in a program using testing and debugging tools.
 4. Use versioning tools for collaborative programming/editing.
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Texts & Resources

Textbook is not required for this course. Instructor will use content from the textbook: Introduction to Java Programming and Data Structures (Comprehensive Version), 12th Edition, by Y. Daniel Liang Pearson Education Inc., publishing as Prentice Hall (ISBN-13: 978-0136520238 or ISBN-10: 0136520235). Earlier/later editions of this textbook by Liang should work fine.

- Least expensive version I have found for Liang is a loose-leaf format (you will need a 3-inch binder) for about \$30.00+.
 - Java textbooks from other authors might also be helpful, however, I recommend a textbook that covers JavaFX (GUI development).
 - Instructor will identify supplemental online resources to provide alternative presentations of the content. These resources are generally very good and for many, make a textbook unnecessary.
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Technology Tools and Resources

- Students will use a personal computer in every lecture and for every project, quiz, and exam.
- Students must have access to a personal computer capable of handling Java and Eclipse IDE.
- Course content and grades will be managed and available via the UTD eLearning system.
- Lectures will be delivered in Traditional Classroom modality as defined by the university.
- Students are responsible for acquiring course-required technology tools, and for being able to use the tools.
- Students should install Excel, Powerpoint, and Word from the MS Office suite of options for this course.
- Students must download Java JDK and Eclipse. **Please install Java SE 8 (aka Java 1.8).**
 - The oldest acceptable version of Java JDK will be Java SE 8 Update 300+ Edition: Standard Edition (SE), Version: 8, Update: 300+. Newer updates of SE 8 are acceptable (greater than 300).

- There are 2 versions depending on your OS (Windows or Mac) and 2 versions depending on your processor (32-bit and 64-bit). Most (all?) of you have 64-bit machines. You should install the 32-bit version only if your personal computer is a 32-bit machine.
- Try this link first: <https://www.java.com/en/download/> (auto selects the version)
- If the above link fails, use this link: <https://www.java.com/en/download/manual.jsp>
- Free download of Eclipse IDE for developers
 - The version of Eclipse IDE must be compatible with the version (32-bit or 64-bit) of the Java JDK. If the 32-bit Java JDK is installed, Eclipse IDE of 32 bits must be used.
 - Students should install the most recent version of Eclipse (64-bit only). Choose Eclipse IDE for Java Developers.
 - 64-bit: <https://www.eclipse.org/downloads/packages/>
 - 32-bit: <https://www.eclipse.org/downloads/packages/release/helios/sr1/eclipse-ide-java-developers>
- The last few weeks of the term will require enabling of an extension for Eclipse to support JavaFX. You do not need to install this until we get to that point in the course.

Lecture Preparation

- All assigned lecture preparation is to be completed before class on the date the content will be covered in the lecture. Generally, the preparation materials will be available and listed in the lecture folders on eLearning approximately a week before the lecture.

Lecture Guidelines

- Attendance will be taken for every lecture. Instructor reserves the right to add attendance as a grade component if attendance is falling to an unacceptable level as determined by instructor alone.
- Students are expected to be attentive, engaged, and participative during lectures. Please minimize the use of mobile devices other than your laptop.
- Students are expected to have a PC open in class to enable participation in exercises and follow lecture slides.
- Lectures will start on-time.
- Lectures will be recorded as they are delivered and will be available for viewing shortly afterward. Recorded lectures are intended to be a supplemental learning tool. Lectures will be targeted to those in the classroom and not to those joining remotely or viewing the lecture recording asynchronously.
- Students are responsible for all materials covered in a lecture, irrespective of their attendance. Neither the TA nor the instructor are required to cover lecture content one-on-one for students missing lectures. Recorded lectures should be used when students miss scheduled lectures.

Administrative Assignment Guidelines (~3% of final grade calculation)

There are 3 special-purpose activities during the term for which students will earn points.

- Quiz 0 – Covers the syllabus and student profile information.
- Midterm Survey – Provides a forum for feedback to the instructor regarding students' satisfaction with the course and suggestions for improvements to the course.
- Discussion Board – Instructor will post content and questions to the Discussion Board. Points will be earned for posting thoughtful responses to the questions and/or responses to other students' submissions.
- Attendance – In response to pandemic concerns, attendance is not planned to be part of the grade calculation. However, should class attendance fall below the instructor's expectations, Attendance Quizzes will be reinstated as part of the grade calculation.

Project Guidelines (~63% of final grade calculation)

- Projects are problems students will solve via Java programs.
- Information related to projects will be posted in eLearning as they are assigned. Project-specific scoring criteria (rubric) will be included with the project instructions.
- All project assignments are due as indicated on the course calendar and not subject to alternative due dates.
- Projects are typically due 7-10 days after they are assigned. Projects are to be submitted in eLearning by 11:59 pm on the date due unless the instructor advises a different time. Submissions via email will not be accepted unless specifically requested that way. Multiple submissions are allowed, last submission will be graded.
- Late Projects will be accepted but with discounted points. For a 35-point project, 5 points will be deducted each day a project is late. Submissions to eLearning after the day/time due will be subject to the 5-point deduction for day 1. Submissions 24:01 (hh:mm) after class time will be subject to another 5-point deduction, and so on.

- Each student, is expected to do their own work on the projects. Working on projects together or in groups, copying another student's work or computer files, or having another person do your work is scholastic dishonesty and will be addressed via the academic dishonesty processes of the university. I'm not kidding.

Quiz Guidelines (~15% of final grade calculation)

- Quizzes will be administered throughout the course to provide feedback to the students and the instructor on the students' understanding and retention of content.
- Quizzes will be administered via eLearning during class time.
- Students with conflicts for the quiz may request an alternative day/time if the request is made in advance of the scheduled date, but it is at the instructor's discretion to allow an alternative date/time.

Exam Guidelines (~19% of final grade calculation)

- The Exam will be administered via eLearning during a specified time.
- Students not able to take the exam at the scheduled time must notify the instructor before the scheduled time for the exam. Should a student miss an exam, it is at the instructor's discretion to allow an alternative date/time. Instructor will require documentation supporting the reason the exam will be/was missed.

Grading

- This course features a mixture of projects, quizzes, and an exam for assessing students' performance. Points for each scored category/activity are shown in the Grade Calculation table below.
- Letter grades will **NOT** be provided for each project or exam.
- Letter grades will be provided at the midterm and semester-end based on the Letter Grade Scoring table below, or on a curved distribution that conforms to UT Dallas guidelines, whichever is more favorable to the students.
- Indicative midterm letter grades will be posted so students are aware of their letter grade status at the mid-point of the semester. Instructor is available to discuss grades one-on-one at any time during the semester.

Grade Calculation

Category	Items	Points	Pct Total		Categ Pts	Pct Total
Admin	Q0	2	0.7%			
	MT Survey	2	0.7%			
	D1-2	4	1.5%		8	2.9%
Quizzes	Q3311	10	3.6%			
	Q1-3	30	10.9%		40	14.5%
Projects	P1-5	175	63.6%		175	63.6%
Exam	Exam	52	18.9%		52	18.9%
	Total	275	100.0%		275	100.0%

Letter Grade Scoring

Final Point Total %	Letter Grade
93-100	A
90-92	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
67-69	D+
63-66	D
60-62	D-
0-59	F

The following guidelines and policies describe how the course will be managed. Situations and issues not covered will be resolved at the discretion of the instructor. Changes to the guidelines will be posted in syllabus updates and via announcements on eLearning.

- **Extra Credit:** No extra credit projects or points are available.
- **Exception requests for graded assessments:** All requests for any schedule exceptions on graded assessments must include documentation. Examples include a car accident, death in the family, illness, etc.
- **Timing of Scoring / Timing of Score Reviews:** Scoring of projects and exams is targeted to be completed 7 days after the work was due (the Scoring Period). It is each student's responsibility to check the scores for their work. Questions about scores and requests for Score Reviews will be accepted during the Score Question Period, which is the 7 days after the scoring was posted in eLearning. After the Score Question Period has passed, no questions will be addressed. *If you do not see a score in eLearning for work that you believe you have submitted and for which the Scoring Period has passed, you must ask the TA or instructor about it via email during the Score Question Period or you will receive a zero.*
- **Score Reviews:** Requests for a review of a score for a project should be submitted in writing via UT Dallas email to the TA. If a student is not satisfied with the TA's explanation, the student may appeal to the instructor, also via email. Requests for score reviews of an exam or quiz should be submitted directly to the instructor in writing and within 14 days after the exam or quiz took place. All questions or appeals should fully explain why the student believes additional points should be awarded and include references to the question wording, lecture slides, online resources content, etc.
- **eLearning:** eLearning will be used for all graded items and the recording of scores/grades. eLearning will be used for all class content (e.g., lecture preparation resources, exercises, etc.). Class announcements (e.g., change in project dates, course calendar adjustments, etc.) also will be posted on eLearning.
- **Instructor Response Policy:** For any questions for which you are expecting a formal (actionable) response, you must submit the question in writing from your UT Dallas email to the instructor's or TA's UT Dallas email. Neither the instructor nor the TA bears any responsibility for questions submitted orally (e.g., during class, via chat, during office hours, etc.) or via a means other than UT Dallas email. The instructor / TA will respond to all student emails within 48 hours or less (excluding holidays and weekends).
- **Academic Integrity:** The University and the instructor are committed to academic excellence and expects academic honesty from all members of the University community. We believe that academic honesty is essential for academic excellence and integrity. Academic honesty includes adherence to guidelines established by the instructor in a particular course. It prohibits representing the work of others to be one's own (plagiarism); receiving unauthorized aid on an assignment (cheating); and using similar papers or other work products to fulfill the obligations of different classes without the instructor's permission. Penalties for academic dishonesty will be assessed per the policies and precedents of the UT Dallas Office of Community Standards and Conduct (OCSC). Penalties may include a score of zero on the work in question or for the entire course. In addition, any student engaged in academic dishonesty will be subject to UT Dallas disciplinary action. Please refer to the General Polices website (see below) for detailed information pertaining to academic dishonesty, including procedures for determining disciplinary action.

General UT Dallas Policies & Procedures

For topics not discussed in this syllabus, UT Dallas policies and procedures will apply. For information regarding general University policies and procedures, please go to <http://go.utdallas.edu/syllabus-policies>. These policies include the following:

- Technical Support, Student Conduct and Discipline, Academic Integrity, Avoiding Plagiarism, Copyright Notice, Email Use, Withdrawal from Class, Student Grievance Procedures, Incomplete Grade Policy, Disability Services, Religious Holy Days

Course Schedule

Below is the initial course schedule. The course schedule is subject to change as the course progresses. Changes to the course schedule will be announced via email and an updated calendar will be posted in eLearning. The most current course schedule always will be posted on eLearning.

Schedule guidelines for graded items are as follows:

- Q0 will be taken on your own before 11:59 pm on 6 Jun.
- Q3311 will be taken on your own on Jun 2-3, but must be completed by 11:59 pm on Jun 3.
- Projects are due at 11:59 pm on the indicated dates.
- Discussions and MT Survey are due at 11:59 on the indicated dates.
- Exam will be during the administration-assigned exam date for the course (after Aug 4).

